

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
200233
435 Guiping Road, Shanghai, P.R.China
SHANGHAI PATENT & TRADEMARK AGENCY

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing <i>(day/month/year)</i>	20 OCT 2005 (20 · 10 · 2005)
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Applicant's or agent's file reference 049762PC	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/CN2004/001586	International filing date <i>(day/month/year)</i> 31.Dec 2004 (31.12.2004)
Applicant INTEL CORPORATION et al	

1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the International search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ CN 6,Xitucheng Road, Jimen Bridge, Haidian District, Beijing, 100088, P.R.China Facsimile No. (86-10) 62019451	Authorized officer  Li,Qiong Telephone No. (86-010)6208 4932
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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 049762PC	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/CN2004/001586	International filing date (<i>day/month/year</i>) 31.Dec 2004 (31.12.2004)	(Earliest)Priority date (<i>day/month/year</i>)
Applicant INTEL CORPORATION et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. With regard to any **nucleotide and /or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (see Box No. II)

3. **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

~~SEARCHED AND SERIALIZED~~

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. The figure of the **drawings** to be published with the abstract is Figure No. Fig 1

- as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2004/001586

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:15-19
because they relate to subject matter not required to be searched by this Authority, namely:
mere presentations of information

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2004/001586

A. CLASSIFICATION OF SUBJECT MATTER

IPC7:G06F11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7:G06F11/00 G06F11/22 G06F11/30 G06F9/45 G06F11/28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC WPI CNPAT PAJ CNKI

debug+ code? remote+ log+ print function library adaptor interface? firmware error fail+ fault

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP2000-215080A(NTT COMMUNICATION WEAR KK) 04.Aug 2000(04.08.2004) the whole document	1-14,20-25
A	CN1383070A(MATSUSHITA ELECTRIC IND CO LTD) 04.Dec 2002(04.12.2002) the whole document	1-14,20-25
A	WO0007100A1(MUTEK SOLUTIONS LTD) 10.Feb 2000(10.02.2000) the whole document	1-14,20-25
A	US6101607A (International Business Machines Corporation, Armonk, N.Y.) 08.Aug 2000(08.08.2000) the whole document	1-14,20-25

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- “A” document defining the general state of the art which is not considered to be of particular relevance
- “E” earlier application or patent but published on or after the international filing date
- “L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)
- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed

“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

“&” document member of the same patent family

Date of the actual completion of the international search

21.Sep 2005(21.09.2005)

Date of mailing of the international search report

20 · OCT 2005 (20 · 10 · 2005)

Name and mailing address of the ISA/CN

The State Intellectual Property Office, the P.R.China
 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China
 100088
 Facsimile No. 86-10-62019451

Authorized officer

Telephone No. 86-10-62084222



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2004/001586

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
JP2000215080A	04.Aug 2000(04.08.2004)	null	
CN1383070A	04.Dec 2002(04.12.2002)	US2002157085A1 JP2003005854A	24.Oct 2002(24.10.2002) 08.Jan 2003(08.01.2003)
WO0007100A1	10.Feb 2000(10.02.2000)	AU5461099A US6202199B1 US6282701B1	21.Feb 2000(21.02.2000) 13.Mar 2001(13.03.2001) 28.Aug 2001(28.08.2001)
US6101607A	08.Aug 2000(08.08.2000)	null	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

200233
435 Guiping Road, Shanghai, P.R.China
SHANGHAI PATENT & TRADEMARK AGENCY

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 bis.1)

Date of mailing
20 OCT 2005 (20 · 10 · 2005)

Applicant's or agent's file reference 049762PC		FOR FURTHER ACTION see paragraph 2 below	
International application No. PCT/CN2004/001586	International filing date (day/month/year) 31.Dec 2004 (31.12.2004)	Priority date (day/month/year)	
International Patent Classification (IPC) or both national classification and IPC IPC7:G06F11/00			
Applicant INTEL CORPORATION et al			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No.II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i)with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No.VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No.VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Date of completion of this opinion 21.Sep 2005(21.09.2005)	Authorized officer Li,qiong  Telephone No. 86-10-62084932
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CN2004/001586

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of :
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 on paper
 in electronic form
 - c. time of filing/furnishing
 contained in the international application as filed
 filed together with the international application in electronic form
 furnished subsequently to this Authority for the purposes of search
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CN2004/001586

Box No.III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

This questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application
 claims Nos. _____

because:

- the said international application, or the said claims Nos. 15-19 _____

relate to the following subject matter which does not require an international preliminary examination(*specify*):

mere presentations of information

- the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____
are so unclear that no meaningful opinion could be formed (*specify*):
- the claims, or said claims Nos. _____ are so inadequately supported
by the description that no meaningful opinion could be formed (*specify*):
- no international search report has been established for said claims Nos. _____
- a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
 furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions,
and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
 furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative
Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to
it.
 pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a)
or (b).
- a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the
prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex
C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form
and manner acceptable to it.
- the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the
technical requirements provided for in Annex C-bis of the Administrative Instructions.
- See Supplemental Box for further details.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CN2004/001586

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement:

Novelty (N)	Claims 1-14,20-25	YES
	Claims _____	NO
Inventive step (IS)	Claims 1-14,20-25	YES
	Claims _____	NO
Industrial applicability (IA)	Claims 1-14,20-25	YES
	Claims _____	NO

2. Citations and explanations

The invention relates to a method and system to remotely log debug information, comprising: executing a program code on a first computer system; generating debug information upon the occurrence of an error during execution of the program code; and transmitting the debug information to a second computer system via network.

D1,D2,D3,D4 are considered to be the closest prior art:

D1: JP2000-215080A

D2: CN1383070A

D3: WO0007100A1

D4: US6101607A

D1 discloses a terminal equipment, which in response to symbol transformation demand, transmits debug information, comprising: connection is recognized when a request signal is sent to establish connection between circuit and relay apparatus. A desired system is designated and informed to the relay apparatus which accesses debug information on designated system connected via virtual server. A symbol transformation demand is output for debugging the program and in response to the demand, debug information is transmitted;

D2 discloses an information processing apparatus. An authentication unit controls a monitor unit to output the monitored execution status of the program, corresponding to a debug information received from a debug communication unit. The debug communication unit transmits monitored information from monitored unit to the debugging;

D3 discloses a remote debugging method. Client program trace control information is transmitted to the client site where the client program is executed along with another code module. The code module traces the execution of client program, based on the trace control information generates a trace log in decrypted form. The trace log is then transmitted to the developer site to debug the client program;

D4 discloses a program function access limiting method. The administrator sets authorization for each registered program functions which are accessible to user via user interface. The application program interface function call is located in application program code, which is executed only if the user has authorization for accessing that program function.

It is obvious that not all the technical features in claims 1-14,20-25 are disclosed by D1,D2,D3 or D4, and further the technical solutions claimed are not obvious to a person skilled on the basis of D1,D2,D3,D4 or their combination. Thus, claims 1-14,20-25 have novelty under PCT Article 33(2), and have inventive step under PCT Article 33(3) ;

Claims 1-14,20-25 have industrial applicability under PCT Article 33(4), because remote logging mechanism claimed can be made or used in the industry.